

104 - SIGNATURE ANALYSIS

TEAM INFORMATION			
Team Name:			
Results Email:			
Examination Time Frame:	to		
	Instructions		

Description: Examine the files in the **104_Signature_Analysis_Challenge2008** folder to determine which files are using the proper signature information and filename display and which are not. Report the full filename for mismatched files, a detailed explanation of your process (software or technique) used to examine and determine your results, and provide the corrected file.

Points will be awarded for each successfully identified signature mismatch and reasoning for your decision.

Total Weighted Points: 10 Total Points available per entry – Total 100 Points Available

- 1. **Answers** Fill in the chart below with your findings. *As a Forensic Challenge, consider that your answers will have to have enough detail for the Findings and Methodology of your examination to satisfy questioning in a court of law.*
- 2. **Methodology** Provide a meticulously detailed explanation of your process. Be sure to include a step action that our reviewers can follow to reproduce your work for authenticity including tools and techniques.

INTERNAL REVIEWER USE ONLY					
Reviewer:				Points Awarded:	
Date:				Review Period:	to
Completed:	☐ Yes	□No	Team Exaflop 104	Page 1 of	8 11/6/2008

REPORT OF EXAMINATION <Example Area> File Name: Signature Good Bad Correct Signature Example.exe Example.exe Challenge.doc Challenge.com Located by using and or process of Research revealed <Answer Area> File Name: Identified Good or Bad by using and or process of Research revealed

Please attach additional sheets as needed.

Page ____ of ___ Initials

Team Exaflop 104 Page 2 of 8 11/6/2008

METHODOLOGY / NOTES FORM			
Tool Inforr			
Туре	Name	Publisher	
Commercial / C	pen Source		
Site:			
Туре	Name	Publisher	
Commercial / C	pen Source		
Site:			
Туре	Name	Publisher	
Commercial / C	pen Source		
Site:			
Date/Time	Notes		

Report of Examination

File Name	Signature Good	Bad	Correct Signature
1. 245.JPG	X		
File Name	Signature Good	Bad	Correct Signature
2. 249.JPG	X		
File Name	Signature Good	Bad	Correct Signature
3. 255.JPG	X		
File Name	Signature Good	Bad	Correct Signature
4. AutoWire.bmp	X		
File Name	Signature Good	Bad	Correct Signature
5. blank.jpg		X	.asp
Identified had signed	ture using the fellowing o	oftweep	

Identified bad signature using the following software:

Guidance Software's EnCase v 5.05J AccessData's Forensic Tool Kit 1.8

Researched the $\x3C \x25 \x40 \x20 \x20 \x43 \(<\% @ CO)$ file signature and found several references to the .asp file extension. I continued to research the content of the file and found that my initial findings of the "asp" file extension were correct.

File Name	Signature Good	Bad	Correct Signature
6. blue.bmp		X	.asp

Identified bad signature using the following software:

Guidance Software's EnCase v 5.05J AccessData's Forensic Tool Kit 1.8

Researched the $\x3C \x25 \x40 \x20 \x20 \x43 \(<\% @ CO)$ file signature and found several references to the .asp file extension. I continued to research the content of the file and found that my initial findings of the "asp" file extension were correct.

File Name	Signature Good	Bad	Correct Signature

7.Bluestar.gif X

File Name Signature Good Bad Correct Signature

8. Chaff_Floral_1197.bmp X

File Name Signature Good Bad Correct Signature

9. Chaff_Landscape_158.gif X

File Name Signature Good Bad Correct Signature

10. Chaff_Landscape_161.gifX

File Name Signature Good Bad Correct Signature

11 CLOCK.MOV X .cab

Identified bad signature using the following software:

Guidance Software's EnCase v 5.05J

AccessData's Forensic Tool Kit 1.8

File Name Signature Good Bad Correct Signature

12. DollL Sales Worldwide.html X .JPG

Identified bad signature using the following software:

Guidance Software's EnCase v 5.05J

AccessData's Forensic Tool Kit 1.8

I researched the $\xFF \xD8 \XFF \xE0$ file header and found references to the .JPG file extension.

File Name Signature Good Bad Correct Signature 13. intro.mpeg X .zip

Identified bad signature using the following software:

Guidance Software's EnCase v 5.05J AccessData's Forensic Tool Kit 1.8

I researched the $\xspace x4B$ (PK) file header and found references to the .ZIP file extension. I tested this file extension in both a forensic environment using EnCase 5.05J and in a Microsoft Windows XP environment. The results were as expected, the zip file opened and revealed picture files.

File Name Signature Good Bad Correct Signature

14. ipp_0004.asp X

File Name Signature Good Bad Correct Signature

15. pctools.zip X .cat

Identified bad signature using the following software:

Guidance Software's EnCase v 5.05J AccessData's Forensic Tool Kit 1.8

I researched the $\x30 \times 82 \times 21$ (0,!) file header and didn't find any references any extensions. I searched the contents of the file for any unique identifiable strings. I located several references to Microsoft and Verisign. I continued to search and found " $\x50 \times 43 \times 41 \times 30 \times 12 \times 17 \times 00 \times 30 \times 32 \times 31 \times 32 \times 31 \times 32 \times 31 \times 38 \times 30 \times 31 \times 37 \times 5A$ " (PCA0··021219180117Z). I searched what I felt was a unique search string and reviewed a file with the same string which was a Security Catalog Information file or ".Cat" extension. I tested this file extension in both a forensic environment using EnCase 5.05J and in a virtual Microsoft Windows XP environment. The results were as expected, the .cat file opened and revealed a Security Catalog Information file.

File Name Signature Good Bad Correct Signature

16. SAILBOAT.JPG X CHM

I researched the \x49 \x54 \x53 \x46 (ITSF) file header and found references to the .CHM file extension. I tested this file extension in both a forensic environment using EnCase 5.05J and in a virtual Microsoft Windows XP environment. The results were as expected; the .CHM file opened and revealed a Microsoft HTML Help compiled help file.

File Name Signature Good Bad Correct Signature

17. Straightline.tif X ASP

Identified bad signature using the following software:

Guidance Software's EnCase v 5.05J AccessData's Forensic Tool Kit 1.8

Researched the $\x3C \x25 \x40 \x20 \x20 \x43 \x20 \x20 \x43$ (<% @ CO) file signature and found several references to the .asp file extension. I continued to research the content of the file and found that my initial findings of the "asp" file extension were correct.

File Name Signature Good Bad Correct Signature 18. SYSTEM.1ST

Identified bad signature using the following software:

Guidance Software's EnCase v 5.05J AccessData's Forensic Tool Kit 1.8

Researched the $\x43 \x52 \x45 \x47$ (CREG) file signature and found several references to the .dat file extension. I continued to research the content of the file and found that my initial findings of the "dat" file extension were correct.

File Name Signature Good Bad Correct Signature

19. SYSTEM.CB X

File Name Signature Good Bad Correct Signature

20. Windows.way X .Cnt

Identified bad signature using the following software:

Guidance Software's EnCase v 5.05J AccessData's Forensic Tool Kit 1.8

Researched the \x3A \x42 \x61 \x73 (:Base) file signature and found several references to the .cnt file extension. I continued research and identified a unique identifiable string "1 This file is not meant for browsing=WIN_HELP_AUTOCLOSE". I searched what I felt was a unique search string and reviewed several references to files with the .cnt extension.

Team Exaflop 104 Page 8 of 8 11/6/2008